DIKE, BRONSTEIN, I	ROBERTS	&	CUSHMAN,	LLP
130 Water Street				
Boston, Massachusetts	02109			

Attorney's	Docket	No.	
•			

Page 1 of 5

DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below	w
next to my name. I believe I am the original, first and sole inventor (if only one name is listed at 201) below or an original, fi	irst
and joint inventor (if plural names are listed at 201-208 below) of the subject matter which is claimed and for which a patent is	;
sought on the invention entitled:	

SHIFT RE	GISTER AND IMAGE DISPLAY DEVICE
which is described as	nd claimed in:
₩	the specification attached hereto.
	the specification in U.S. Application Serial Number, filed on
	the specification in PCT international application Number filed on; and was amended on

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a). I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign/PC	Prior Foreign/PCT Applications and Any Priority Claims Under 35 U.S.C. 119:					
Application No.	Filing Date	Country	Priority Claimed Under 35 U.S.C. 119?			
11–311191	November 1, 1999	Japan	⊠ YES □NO			
2000–117073	April 18, 2000	Japan	ĕyes □no			
			□YES □NO			
			□YES □NO			
			□YES □NO			
			□YES □NO			
			□YES □NO			

I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Prior U.S. Applic	ations or PCT Interna	tional Applications Designating th	ne U.S-Benefit	Under 35 U	J.S.C. §120
	U.S. Applicati	ons	Si	atus (Check	One)
Application	n Serial No.	U.S. Filing Date	Patented	Pending	Abandoned
	- · · · · · · · · · · · · · · · · · · ·				
PC	T Applications Designa	ating the U.S.			
Application No.	Filing Date	U.S. Serial No. Assigned			

CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S) (35 U.S.C. § 119(e))

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

Applicant	Provisional Application Number	Filing Date

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) with full powers of association, substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Sewall P. Bronstein David G. Conlin	(Reg. No. 16,919) (Reg. No. 27,026)	Linda M. Buckley Ronald I. Eisenstein	(Reg. No. 31,003) (Reg. No. 30,628)	David S. Resnick Peter F. Corless	(Reg. No. 34,235) (Reg. No. 33,860)
George W. Neuner	(Reg. No. 26,964)	Henry D. Pahl, Jr.	(Reg. No. 20.438)		
Ernest V Linek	(Reg. No. 20 822)	Berne T. Manue	Mar No. 26 766		

SEND CORRESPONDENCE TO:

DIRECT TELEPHONE CALLS TO:

Dike, Bronstein, Roberts & Cushman, LLP 130 Water Street

Boston, Massachusetts 02109

(617) 523-3400

	FULL NAME OF INVENTOR	LAST NAME Washio	FIRST NAME Hajime	MIDDLE NAME
2 0 1	RESIDENCE & CITIZENSHIP	CΠΥ Tenri-shi	STATE OR FOREIGN COUNTRY Nara Japan	COUNTRY OF CITIZENSHIP Japan
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 2613-1-107, Ichinomoto-cho	спү Tenri-shi	STATE OR COUNTRY AND ZIP CODE Nara 632-0004 Japan

	FULL NAME OF INVENTOR	Kubota	FIRST NAME Yasushi	MIDDLE NAME
2 0 2	RESIDENCE & CITIZENSHIP	cπy Sakurai—shi	STATE OR FOREIGN COUNTRY Nara Japan	COUNTRY OF CITIZENSHIP Japan
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 5-1093-267, Asakuradainishi	•	STATE OR COUNTRY AND ZIP CODE Nara 633-0004 Japan

	FULL NAME OF INVENTOR	LAST NAME Maeda	FIRST NAME Kazuhiro	MIDDLE NAME
2 0 3	RESIDENCE & CITIZENSHIP	cπγ Tenri-shi	STATE OR FOREIGN COUNTRY Nara Japan	COUNTRY OF CITIZENSHIP Japan
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	СПҮ	STATE OR COUNTRY AND ZIP CODE
		2613-1-754, Ichinomoto-cho	Tenri-shi	Nara 632-0004 Japan

	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME
		Kaise	Yasuyoshi	
2	RESIDENCE &	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
•	CITIZE	Tenri-shi	Nara Japan	Japan
	POST OFFICE ADDRESS	POST OFFICE ADDRESS 2613-1-645, Ichinomoto-cho	cmy Tenri-shi	STATE OR COUNTRY AND ZIP CODE Nara 632-0004 Japan

										
11	FULL NAME OF INVENTOR	LAST NAME MIDDLE NAME								
1	OF INVENTOR	Brownlow	Michael	James						
1				Julies						
2		CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF						
5	CITIZENSHIP	063	<u>I</u>	COUNTRY OF CITIZENSHIP						
		Oxford	Oxford, United Kingdom	United Kingdom						
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	СПҮ	STATE OR COUNTRY AND ZIP CODE						
1	ADDRESS	124 Church Road	Oxford	Oxford OX4 4YB						
L	<u> </u>	Sandford on Thames	OXIOIU	United Kingdom						
	Torriced Kingdom									
Г	FULL NAME	LAST NAME	FIRST NAME							
	OF INVENTOR	Cairns		MIDDLE NAME						
H	1	0012110	Graham	Andrew						
2	RESIDENCE &	CITY	STATE OR FOREIGN COUNTRY							
0	CITIZENSHIP	Oxford	Oxford, United Kingdom	COUNTRY OF CITIZENSHIP						
6]		oxidia, diffed kingdom	United Kingdom						
ĺ	POST OFFICE	POST OFFICE ADDRESS	СПУ							
	ADDRESS		Cit	STATE OR COUNTRY AND ZIP CODE						
[1	22 Bourne Close Cutteslowe	Oxford	Oxford OX2 8NH						
			<u> </u>	United Kingdom						
	F-111									
	FULL NAME OF INVENTOR	LAST NAME	FIRST NAME	MIDDLE NAME						
		. `								
	RESIDENCE &	CITY								
•	CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP						
7										
	POST OFFICE	MOTE 0.5								
1	ADDRESS	POST OFFICE ADDRESS	СПҮ	STATE OR COUNTRY AND ZIP CODE						
i										
										
										
		LAST NAME	FIRST NAME	MIDDLE NAME						
	OF INVENTOR			SMAY, SJUUR.						
ļ			İ							
	RESIDENCE &	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP						
	CHIZENSHIP			COOLING OF CHIZZASHIP						
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	POST OFFICE ADDRESS	POST OFFICE ADDRESS	СПҮ	STATE OR COUNTRY AND ZIP CODE						
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1										
I hereby further declare that all statements made having 6										

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature of Inventor 201	Signature of Inventor 202		
Hojime Washio	yasushi Kubota		
Date: October 5, 2000	Date: October 5, 2000		

gnature of Inventor 203	Signature of Inventor 204			
Kazuhiro Maeda	Jasuyoshi Kaise			
october 5, 2000	Date: October 5, 2000			
gnature of Inventor 205	Signature of Inventor 206 Governor Course.			
october 12, 2000	Date: October 12, 2000			
gnature of Inventor 207	Signature of Inventor 208			
IE:	Date:			

766 368

JANUARY 28, 2001

EDWARDS & ANGELL, LLP DAVID G. CONLIN 130 WATER STREET BOSTON, MA 02109



UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231





16591 U.S. PTO 10/800352

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RECORDATION DATE: 11/01/2000

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NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

WASHIO, HAJIME

DOC DATE: 10/05/2000

ASSIGNOR:

KUBOTA, YASUSHI

DOC DATE: 10/05/2000

ASSIGNOR:

MAEDA, KAZUHIRO

DOC DATE: 10/05/2000

ASSIGNOR:

KAISE, YASUYOSHI

DOC DATE: 10/05/2000

ASSIGNOR:

BROWNLOW, MICHAEL JAMES

DOC DATE: 10/12/2000

ASSIGNOR:

CAIRNS, GRAHAM ANDREW

DOC DATE: 10/12/2000

011265/0063 PAGE 2

ASSIGNEE:

SHARP KABUSHIKI KAISHA 22-22 NAGAIKE-CHO ABENO-KU OSAKA, JAPAN

SERIAL NUMBER: 09703918

PATENT NUMBER:

FILING DATE: 11/01/2000

ISSUE DATE:

JEEVON JONES, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

FORM PTO-1595 (Modified) (Rev. 6-93) OMB No. 0651-0011 (exp.4/94)

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11-27-2000

t No.: 55368(904)

U.S. DEPARTMENT OF COMMERC Patent and Trademark Offi-

Copyright 1996-97 LegalStar P08A/REV02 Tab settings 🔷 🔷 101527799 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): HAJIME WASHIO, YASUSHI KUBOTA, KAZUHIRO MAEDA, YASUYOSHI KAISE, Name: SHARP KABUSHIKI KAISHA MICHAEL JAMES BROWNLOW Address: 22-22 Nagaike-cho, Abeno-ku **GRAHAM ANDREW CAIRNS** Additional names(s) of conveying party(ies) ☐ Yes ☒ No 3. Nature of conveyance: Assignment □ Merger ☐ Security Agreement Change of Name City: Osaka _____ State/Prov.: ☐ Other Country: Japan ZIP: 10/5/00, 10/5/00, 10/5/00, 10/5/00, Execution Date: 10/12/00 & 10/12/00 respectively Additional name(s) & address(es) ☐ Yes ⊠ No Application number(s) or registration numbers(s): 10/5/00, 10/5/00 If this document is being filed together with a new application, the execution date of the application is: 10/5/00, 10/5/00 10/12/00 & 10/12/00 respectively Patent Application No. Filing date B. Patent No.(s) 11/96/2000 KZEWDIE 00000037 09703918 03 FC:581 Additional numbers ☐ Yes 🖾 No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: David G. Conlin 7. Total fee (37 CFR 3.41):....\$ 40.00 Registration No. 27026 Enclosed - Any excess or insufficiency should be credited or debited to deposit account Address: Dike, Bronstein, Roberts & Cushman. Authorized to be charged to deposit account **Intellectual Property Practice Group** EDWARDS & ANGELL, LLP, 130 Water Street 8. Deposit account number: City: Boston State/Prov.: MA 04-1105 Country: USA ZIP: 02109

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

David G. Conlin (Reg. No. 27026)

Name of Person Signing

Signature

Total number of pages including cover sheet, attachments, and

November 1, 2000

3

Date

ASSIGNMENT

We							
Yasushi KUBOTA							
and Kazuhiro MAEDA , for good and Valuable consideration from SHARP KABUSHIKI KAISHA							
, a Japanese corporation,							
having its principal place of business in Osaka, Ja	pan ,						
hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in, to and under an application for Letters Patent of the United States Serial No							
including all priority rights ensuing therefrom, and the inventions and any of them therein set forth and described, and any and all letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such letters Patent.							
And for the above consideration we agree promptly upon request of the Assignee, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, divisional, continuation or reissue, or other papers which may be necessary or desirable fully to secure to the Assignee, its successors and assigns, the inventions and any of them described in said application and all patent rights therein, in the United States and in any country foreign thereto.							
The undersigned hereby grant(s) the law firm of Dike, Bronstein, Roberts & Cushman the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.							
KUBOTA , hereunto set my hard and se	, hereunto set my , 2000, I, Yasushi al this 5th day of October hereunto set my hard and seal						
, 2000.	21 - 40 4						
, 20 <u>00</u> .	Hazime Washio						
	Hazine Washio						
	Hazine Washio						
	Hazime Washio Yasushi Kilota Kazuhiro Maeda						
	Hazime Washio Gasushi Kilota Razufuro Maeda						
, zooo.	Hazima Washio Yasushi Kulota Razufuro Maeda						
	Hazime Washio Yasushi Kilota Razuhiro Maeda						
Commcrawealth [State] ofss.	Hazime Washio Yasushi Kulota Razuhiro Maeda						
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. Commonwealth [State] of	Razufuro Maeda						
Commcrawealth [State] ofss.	Razufuro Maeda						
Commonwealth [State] ofss. County ofss. Before me thisday of, who is to me personal the foregoing instrument of assignment to be [her] hi	Rayufuro Maeda , 19_, personally appeared ly known, and acknowledged s free act and deed.						
Commcrawealth [State] ofss.	Rayufuro Maeda , 19_, personally appeared ly known, and acknowledged s free act and deed.						
Commonwealth [State] of	Rayuhus Malola , 19_, personally appeared ly known, and acknowledged s free act and deed. Notary Public , 19_, personally appeared y known, and acknowledged						
Commonwealth [State] of	Rayuhus Malola , 19_, personally appeared ly known, and acknowledged s free act and deed. Notary Public , 19_, personally appeared y known, and acknowledged						
Commonwealth [State] of	Rayuhus Malola , 19_, personally appeared ly known, and acknowledged s free act and deed. Notary Public , 19_, personally appeared y known, and acknowledged						

*Where the application is assigned before it is filed, and hence has no Serial No., this shall be left blank.

ASSIGNMENT

We_	Yasuyoshi	KAISE					
		ames BROWNLOW					
and	Graham And	drew CAIRNS sideration from	CHADD VA	DIICUTET E	ATCHA '		
ici door a	ud varnante co	isideracion indii_	A Tapanaga	DOSITINI N	corporation,		
having its principal place of business in Osaka, Japan hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in, to and under an application for Letters Patent of the United States Serial No, filed on * signed by us for Improvements in SHIFT REGISTER AND IMAGE DISPLAY DEVICE							
including all priority rights ensuing therefrom, and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such Letters Patent.							
And for the above consideration we agree promptly upon request of the Assignee, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, divisional, continuation or reissue, or other papers which may be necessary or desirable fully to secure to the Assignee, its successors and assigns, the inventions and any of them described in said application and all patent rights therein, in the United States and in any country foreign thereto.							
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BROWNLA	ow 5th	day of October Yasuyoshi day of October	hand and sea	hereunto s	, hereunto set my I, Michael James th day of October et my hand and seal		
-				Yasu	yoshi Haise		
				Sow	ment.		
				Gurl	yoshi Haise wnew.		
County of _	th (State) or_		ss.				
Before	me this	day of, who is to	me personal	, 19, pe ly known, a	ersonally appeared and acknowledged		
the forego	ing instrument	of assignment to	be [her] hi	s free act	and deed.		
			•	Notary	Public		
County of_	th [State] of_		ss.				
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				Notary	Public		

*Where the application is assigned before it is filed, and hence has no Serial No., this shall be left blank.